

6/96



ARRL
CLUB
#1602



60 cents
"cheep"



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Utah Amateur Radio
Club HAM
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The MICROVOLT
632 University Street,
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the MICROVOLT

PLEASE SEND DUES TO:

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1996 Utah Amateur Radio Club Officers and Others

President- Bruce Bergen K17OM
(Hm) 943-1365 (WK) 486-3371
bbergen@xmission.com

Executive Vice President-Cindy Peters KB7OUT
(HM) 268-4410

Vice President-Gordon Smith K7HFV
582-2438 gordon@ehell.portal.com

Secretary- Gary Openshaw KC7AWU
861 Roosevelt Avenue,
SLC UT 84105 484-3407

Treasurer-Chuck Johnson WA7JQS
268-0153 chuck@bts slc.com

Microvolt Editor- Cokie Eddy KC7MDV
8719 Nowell Drive,
West Jordan, UT 84088
280-1762 Compuserve acct. 73060,1510

Asst. Microvolt Editor-Maurino Straktenfinger KC7HOZ
254-1536

Program Chairpersons
Alan Seyboldt KC7MUZ- Linda Reeder N7HVF
Alan- clalrpt@burgoyne.com Linda-364-7006

Ham Hotline-Verna Bennion
583-3002

Book Dealer-Fred DeSmet K17KM
2333 East 3225 South.
SLC, UT 84109 485-9245

Historian-Carol McWhorter KC7LLW

ARRL Sect. Mgr. For Utah-Jim Rudnicki N27T

UARC REPEATER COMMITTEE
Trustee-Ron Jones K7RJ 561-2685
Board Liaison Gordon Smith K7HFV 582-2438
Repeater Engineer-Randy Finch K7SL 277-7135
Autopatch. Eng.-Gordon Smith K7HFV
Asst. Rep. Eng.-John Purken KA7GZH

1996 WIMU Chair-Duane Anderson KJ7HO

Past President-Ray Allen N7TEI 593-0949

Repeater Monitor-Allen Wright N7QFI
268-8482

Printing By-Don Baumgartner WN7D
BEEHIVE PRINTING
3326 S. 275 East
SLC, UT 84115 485-9178

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The Utah Amateur Radio Club was organized under it's present name in 1927, although its beginnings my date back as early as 1909. In 1928, it became affiliated with the American Radio Relay League (club #1602) and is a non-profit organization under the laws of Utah. It holds a club station license with the call W7SP, a memorial call for Leonard (Zim) Zimmerman, an amateur radio pioneer in the Salt Lake City Area. The club meets each month except July and August. The meetings are held on the first Thursday of the month at 7:30 PM in the Exhibition hall located on the Salt Lake County Fairgrounds just south of Murray City Park. Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$13 per year, including a MICROVOLT subscription. Those living at the same address as a member who has paid \$13 may obtain a membership without a Microvolt subscription for \$9. ARRL membership renewals should specify ARRL Club #1602. UARC maintains the following repeaters: 146.62 (mains) and 449.10. The repeaters are administered by the UARC repeater committee. Comments and questions may be directed to any committee member. The Lake Mountain repeater (146.76 mains offset) has Autopatch facilities on both the Orem exchange (covering Santequin to Lehi) and the Salt Lake City exchange (covering Draper to Layton). The 449.10 repeater has autopatch facilities into Salt Lake City only. Due to the volume of traffic, only mobiles should use this autopatch. Autopatch use is open to all visitors to our area and to all club members. Non members who wish to use the Autopatch are encouraged to help with and maintaining a club membership. THE MICROVOLT: The Microvolt is the official publication of the club. Deadline for submissions to the Microvolt is the 10th of each month prior to publication, except Aug. All submissions are welcome but what is printed and editing are the responsibility of the UARC board. Reprints are allowed with proper credits to the MICROVOLT, UARC, and authors.



THE MICROVOLT

Publication of the Utah Amateur Radio Club
VOLUME XL ISSUE 6 **JUNE, 1996**



QST FROM THE PREZ

The snow shovels have been stowed away, tax time has past, the days are growing warmer and longer, lawns need mowing, and we will soon resume the Wednesday Nite Hikes. These usually begin around the first of June (talk-in on 146.62) with a gathering at the Big Cottonwood Canyon Park & Ride at either 5:30 or 6:00 PM.. This coincides with longer daylight hours and the disappearance of snow in the high country. There is nothing quit like hiking in the mountains with friends. Except perhaps viewing a Beautiful sunset from high on a ridge or mountain top with the Great Salt Lake, the Salt Lake Valley and the Wasatch bathed in the golden light of a setting sun.

Summer time brings a lot of other opportunities for Hams to get out of the radio shack and into the outdoors. We have North American Amateur Radio's premier event, Field Day, coming up June 22-23, followed a few weeks later with UARC's big event, the annual Steak Fry July 13. Whether you are new to the hobby or a seasoned veteran, a No-Code-Tech or an Extra Class, these are events for all to enjoy. August 2,3-4 is the date of the UARC hosted WIMU Hamvention in Park City. This is an event you will not want to miss. It will likely be years before this event returns to Utah.

This year we have an added feature to look forward to - The Utah State Centennial QSO Party - August 24 and 25th the club may be able to sponsor this on a mountain top if we can find the volunteers to organize our

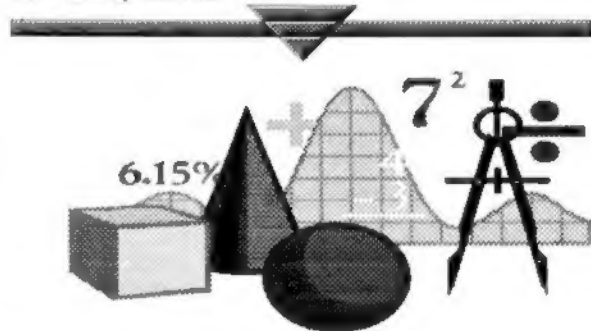
participation. Whether you participate in a club station or strike out to some rare county location with a small group, put this event on your calendar. The date was, in part, chosen to allow us to camp out in some of the beautiful areas of our state with family and friends.

For those really hearty ham outdoors persons there is, what has become tradition, the annual Lone Peak Ham Fest sometime in July or August.. This is an event where the person who succeeds in summiting with the most Ham gear wins. Gee, we might even get Gary, KB7EEC, to surf the Internet over 70cm from on top, or Clint KA7OEI, will most likely set up his ATV station to transmit views from on top over to the ATV repeater on Farnsworth for all to get a glimpse of the Unitas or climbers on the Question Mark Wall.

Don't miss out - this summer is a limited engagement and will

happen only once..

73 - Bruce, KI7OM



Feature Of The Month

This Month we are featuring Stewart Pearson KI7WE. He has been in ham radio since 1993. He has his extra class license.

Stewart is net control on the UARC information net on the third Sunday of each month. This net is on every Sunday at 9 P.M. on the 146.62 repeater. Stewart listened to two meters on his scanner long before he ever got into ham radio. The thing he likes the best about amateur radio is the people he has met.

Stewart teaches the fourth grade at Howard Driggs Elementary School in the Granite school district.

Amateur radio is an important part of his curriculum. Ham radio has sparked the interest of students who had little or no interest at all in school. A mother said with tears in her eyes that she had a hard time getting her son to go to school, now he is the first one there.

Stewart tells his class that if they get their work done he will let them talk on the ham radio. I have had the privilege of talking to his students on the ham radio. Amateur radio teaches many skills such as: electronics, math, science, communications and geography. What a wonderful way to learn about another country by actually talking to someone who lives there.

In 1995 The Utah PTA nominated Stewart Pearson for The Golden Apple which is the most outstanding teacher of the year award. Approximately 400 educators throughout the state of Utah were nominated for this award, and Stewart was one of six educators to win the award. This is a prestigious award. He received a Macintosh computer system and some cash.

KUED channel 7 brought their Team Teaching Television production studio to his classroom and spent the entire day with his class. KUED aired a documentary on Stewart Pearson. Governor Mike Leavitt talked about his teaching career and presented the Golden Apple Award to him on the program. Stewart said he would let us know when they air it again.

Stewart said that he would like to see Morse Code stay in amateur radio. He says that if individuals work hard for their licenses they will appreciate it a lot more.

Stewart, congratulations on your award.
73 N7HVF Linda Reeder

Ham Hotline

(801)583-3002

Tentative 1996 Schedule

JUNE	6: Field Day Meeting- slides and talk
JUNE	22 & 23: Field Day <u>WOLF CREEK SUMMIT</u>
JULY	13: Steak Fry (The Spruces)
AUG.	2, 3, 4: WIMU Held at Olympia Park Hotel, Park City
SEPT.	5: Swap Meet
OCT.	3: Planned- Vintage Radios (Not firm schedule)
NOV	7: HomeBrew and Election Nominations
DEC.	5: Elections and Plans for The New Year

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More WIMU '96



Remember that The 64th Annual Wyoming, Idaho, Montana and Utah Amateur Radio Convention (WIMU) for 1996 will be held August 2, 3, and 4 in Park City, Utah. For reservations you can call the Olympia Park Hotel at 1-800-234-9003 for reservations starting now. We have been given a special rate of \$62 per room, plus tax, single or double occupancy. Be sure to tell them that you are a part of WIMU to get the discount.

Camping reservations may be made with the Hidden Haven Campground (6 miles west of the hotel at the Kimball Junction exit of I-80) by calling 801-649-8935.

The hotel and campground hosts have suggested that reservations be made as early as possible due to the Arts Festival being held that same weekend. Some of the spectacular activities that have been scheduled for the HAMS and their families, are a multitude of forums and a lot of prizes. The forums include:

- Packet Radio
- Batteries
- QRP-low power Operation
- DX Operations
- Basic Radio Etiquette For New Hams
- Winter Driving Techniques By UTHP
- CW Operations
- ARES/RACES 72-Hour Kits
- Satellite Communications
- Antennas
- Radio Direction Finding
- MARS Emergency Reporting
- Electronic Test Equipment and Building Techniques
- HANDI- HAMS
- Ballooning and Amateur Radio
- ARRL Discussion With Visits From Headquarters

You can now reach Duane at kj7ho@utah-inter.net
443 East Brandt CT., #30
SLC, UT 84107 phone (801)288-1859

You can still visit our WIMU web page at
<http://www.xmission.com/~mistral/WIMU96.html>

CORRECTED UTAH AMATEUR RADIO EXAMINATION SCHEDULE

UTAH AMATEUR RADIO EXAMINATION SCHEDULE

May 14, 1996

(For more details see the listing of "Programs by City"
at the end.)

Date Location Contact Person Home Ph. Bus. Ph.

05/28/96* (Tues.) Salt Lake C. Eugene McWherter,
N7OVT 484-6355
 06/01/96 (Sat.) Salt Lake C. Gordon Smith, K7HFV
 582-2438 534-8116
 06/19/96 (Wed.) Provo Steve Whitehead, NV7V
 465-3983 225-5200
 06/25/96* (Tues.) Salt Lake C. Eugene McWherter,
N7OVT 484-6355
 07/03/96 (Wed.) Farmington Brent Thomas, AC7H
 292-8110 539-3700
 07/08/96 (Mon.) Delta Stephen Bowes, KB7SSF
 864-5936
 07/17/96 (Wed.) Provo Steve Whitehead, NV7V
 465-3983 225-5200
 07/30/96* (Tues.) Salt Lake C. Eugene McWherter,
N7OVT 484-6355
 08/03/96 (Sat.) Salt Lake C. Gordon Smith, K7HFV
 582-2438 534-8116
 08/21/96 (Wed.) Provo Steve Whitehead, NV7V
 465-3983 225-5200
 08/27/96* (Tues.) Salt Lake C. Eugene McWherter,
N7OVT 484-6355
 09/04/96 (Wed.) Farmington Brent Thomas, AC7H
 292-8110 539-3700
 09/09/96 (Mon.) Delta Stephen Bowes, KB7SSF
 864-5936
 09/18/96 (Wed.) Provo Steve Whitehead, NV7V
 465-3983 225-5200
 09/24/96* (Tues.) Salt Lake C. Eugene McWherter,
N7OVT 484-6355
 10/05/96 (Sat.) Salt Lake C. Gordon Smith, K7HFV
 582-2438 534-8116
 10/16/96 (Wed.) Provo Steve Whitehead, NV7V
 465-3983 225-5200
 10/29/96* (Tues.) Salt Lake C. Eugene McWherter,
N7OVT 484-6355
 11/02/96 (Sat.) Ogden Matt George, AB7GM
 393-9159
 11/20/96 (Wed.) Provo Steve Whitehead, NV7V
 465-3983 225-5200

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* Only Novice and Technician elements (1A, 2, and 3A)
given at this session.

Send additions or corrections to Gordon Smith, K7HFV.
EXAMINATION PROGRAMS BY CITY

City: Brigham City Contact Person: Bob Anderson,
AA7TR

VEC: ARRL

Phone: 257-3021

Location: Basement of Zion's Bank at Main and First
North

Schedule: Twice annually, spring and fall. Details vary.

Code tests at 6 p.m. Written tests at 7 p.m.

City: Farmington Contact Person: BrenThomas, AC7H
 VEC: ARRL 637 East 2150 South
 Bountiful, Utah 84010

Home Ph: 298-3322 Bus. Ph: 538-3700

Location: Davis County Jail Complex,
800 West State St.,
Farmington

Service entrance

Schedule: First Wednesday of Jan., Mar., July, and Sept.,
7 p.m.

City: Logan Contact Person: Paul Hansen, WO7N
 VEC: ARRL 1676 East 1600 North
 Logan, Utah 84321

Home Ph: 753-4843 Bus. Ph: 752-6425

Schedule: Second Saturday of April and October, 9:00
a.m.

City: Ogden Contact Person: Matthew George, AB7GM
 VEC: ARRL 473 Hiland Road
 Ogden, UT 84404
 Phone: 393-9159

Recorded exam information: 627-6064

Location: Weber State College, Science and Technology
Building, Rm 228

Schedule: First Saturday of May and November, 8:00
a.m.

City: Provo Contact Persons: Steve and Linda
 Whitehead
 VEC: W5YI 497 South 700 East
 Payson, Utah 84651
 Home Ph: 465-3983 Bus. Ph: 225-

5200

Location: Provo Campus of Utah Valley State College

Schedule: Third Wednesday evening of each month

Notes: Do not confuse this location with the larger Orem
campus.

City: Salt Lake City Contact Person: Gordon Smith,
K7HFV

VEC: ARRL

632 University Street

Salt Lake City, Utah 84102

Home Ph: 582-2438 Bus. Ph: 532-3400
Ext. 8116

Location: Blue Cross/Blue Shield Cafeteria
2455 East Parley's Way

Main (west) building, West door

Schedule: First Saturday of Feb., Apr., June, Aug., Oct. and Dec.

20 w.p.m.: 8:00 a.m. 13 w.p.m.: 8:30 a.m. 5

w.p.m.: 9:15 a.m.

No code test needed: Any time between 8 and 10 a.m.

Notes: Pre-registration is required. The owners of the building require

that the door be kept locked. Those who pre-register will receive

the code required to get in. Pre-registration also speeds the session and gets licenses on the way faster after the session. It takes only a few minutes by phone or on the air. Gordon usually monitors 146.62.

City: Salt Lake City
McWherter, N7OVT
VEC: W5YI

Contact Person: Eugene

536 E. Leland Avenue
Salt Lake City, Utah 84115
Home Ph: 484-6355

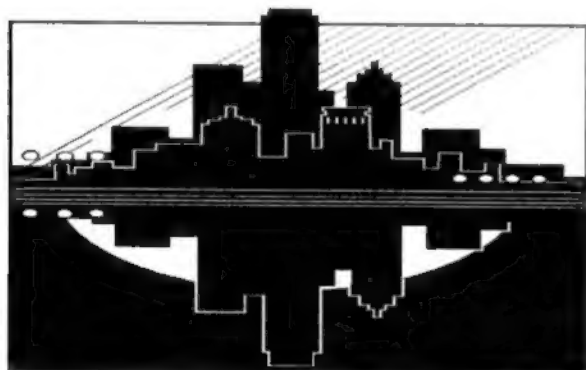
Location: Granite High Seminary Building
Approximately 33rd South and 5th East

Schedule: Last Tuesday of each month, 7 p.m.

Notes: This session is intended primarily for those seeking Novice, Technician, or Technician-plus licenses. Only elements 1A, 2 and 3A will be administered. Pre-registration is required.

THINGS TO BRING TO TEST SESSION

1. Two forms of ID (If licensed, your original and one form of ID)
2. \$6.05 - Cash or Check.
3. A copy of your license, and or copies of your pending 610 form or certificate of credit along with the original.
4. You may bring a filled out 610 form or a form will be available at the test session.
5. Pencils or pens.
6. You may bring a calculator but you must show that it is not pre-programmed.



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UARC WEB PAGE ADDRESS!

<http://www.xmission.com/~uarc>



My CompuServe address 73060,1510

Our ARRL Section Manager

jimkatpa@aol.com

ARRL Home page <http://www.arl.org>

Call sign Lookup

<http://www.ual.edu/doc/hamulr/callsign.htm>

Canadian Bacon (Hams) <http://www.rac.ca>
DX Info

<http://www.clinetifi/~jukka/webcluster.html>

Electronic Swapmeet

<http://www.westes.com/Ads/Ads.html>

Our Federal Government

<http://www.fedworld.gov>

F.C.C. <http://www.fcc.gov>

House of Representatives

<http://www.house.gov>

Internet/Packet Gateway

<http://www.w2xo.pgh.pa.us>

I.T.U. Info <http://www.itu.ch>

Lat/Long Lookup

<http://www.mit.edu:8001/geo>

Neighborhood Antennas

<http://www.hamweb.com/~sjl/stoner/antenna.html>

NTIA <http://www.ntia.doc.gov>

Sarax

http://www.nasa.gov/sarex/sarex_mainpage.html

EAST HIGH SCHOOL IS SPONSORING AN
ACADEMIC NOVICE, TECH, TECH+ CLASS
WILL INCLUDE CODE. WILL BE SEPT. 19
FROM 7-9 PM FOR 8 WEEKS. 8th
SOUTH 1300 EAST



Can You Top That?

FRIENDS HELPING FRIENDS

-Cokie Eddy

I was coming home from a board meeting the other night and a friend was telling me of an incident that happened after one of the meetings. Actually last months meeting.

This was something that I had to agree with her that should be shared with other people. Not everyone talks about the cool stuff that people do for each other. A lot of people will be right there to tell someone about a bad situation that has happened, but forget about the good things that have happened in life. Like, forget your spouses birthday, you will never live it down. (Women are more guilty of this than men) But what about all the birthdays that you remembered?

At any rate, the meeting had broken up and Bill from Idaho was going home, Bill from Brigham City was almost home, and Bill from Idaho needed help because his automobile had broken down. I suppose it went something like this...

Mark (AB7GJ) and Suzi (KC7CBR) heard the cry for help. They went and got him some oil, (and that is a job in itself late at night.) so they tried to help. What ever it was could not be fixed by the oil. Bill from Brigham City came all the way to Salt Lake to help him (Bill from Brigham City's call is AB7MO) however, to no avail.

Sylvia's (KC7KQY) father, (if someone knows this gentleman's name I would appreciate them contacting me...I have called him 'Sylvia's father' now in two editions.) finding that the fellow HAM needed help, took him to their home in Morgan until they could get his automobile going. This is the type of stuff people should do for each other. Not just HAMS...but HUMANS. It sure makes you proud to know that there are still good people out there. It makes you proud to be human.

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CLUBS

UTAH AMATEUR RADIO CLUBS

UARC or Utah Amateur Radio Club meets the first Thursday of each month except the months of July and August. The meeting is held in the Theatre Building located on the Salt Lake County Fairgrounds (5200 S. and 200 E.) just south of Murray Park at 7:30 PM. There is a newcomer's meeting held prior to the main meeting at 7:00 PM.

The Davis County Amateur Radio Club meets the 2nd Saturday of each month at 10:00 AM at the Davis County Sheriff's Office, 800 West State street, Farmington UT. Members and nonmembers are welcome. Dues are \$15.00 per year and can be paid at any club meeting. The Davis Club supports the 147.04 repeater. DAVIS ARES conducts a net each Thursday at 7:00 PM on 147.42 simplex. They also have a DAV node for packet on 145.07. For further information please contact Mel Parker, NSUVP 299-3430.

OARC or Ogden Amateur Radio Club meets the 3rd Wednesday of each month in Ogden at 7:00 PM. The meetings are held at the Red Cross building at 2955 Harrison BLVD. Members and nonmembers are invited. Dues are \$15.00 per year and can be sent to P.O. Box 3353, Ogden, Utah 84409. OARC supports the 146.90 repeater and conducts a net there Tuesdays at 7:30 PM. They also support the 146.82 repeater. The contact person is Jerry Peters WA7ADK who can be reached at 825-8798.

The VHF Society is a group dedicated to maintaining a system of repeaters in our area. Dues are \$10.00 per year and can be sent to PO Box 482 Bountiful Utah 84011-0482. The VHF Society holds a swap and traffic net for it's members each Tuesday night at 8:00 P.M. on the 146.940 repeater. For further information please contact Eldon Koari KB7OGM at 571-9955.

Salt Lake County ARES (Amateur Radio Emergency Services) conduct a net each Wednesday Night at 8:00 PM on the 146.88 repeater. All amateurs are welcome to participate. Their in-person meeting is held the third Wednesday of each month. For more information please contact John Parker, KA7GZH at 278-5846 or Richard Evans N7PCE at 265-9346.

Utah Valley ARES holds their general meeting the 1st Tuesday of every month at 7:00 PM. They also conduct a net each Tuesday at 9:00 P.M. on the 147.34 repeater which is also linked to the 224.7 repeater. The contact person is Robert Earl, N7EGG at 225-8870

MARA or Mercury Amateur Radio Association is a world wide group of Radio Amateurs dedicated to training and traffic handling for emergency operation. They conduct VHF nets each Wednesday at 9:00 PM. They also conduct health and welfare traffic net on 3.873 MHz (80 meters). The Salt Lake area is on the 146.74 repeater and their contact person is Willy Peake N7VVL at 466-1114. The Ogden area is on the 145.49 repeater and the Provo area on the 145.37 repeater with Vince Newmeyer N7MLP at 785-5611 as their contact person.

UPRA (Utah Packet Radio Association) holds their general meeting on the 2nd Saturday of each month at 2:00 PM at the State Capitol Annex Building north of the State Capitol. All amateurs are welcome. The purpose of the club is to educate people who are new to packet and to coordinate packet activities. Their dues are \$15.00 per year and can be sent to PO Box 92 Riverton, UT 84065. Their contact person is Jack Christensen, KC7NX at 277-6629.

UBET (Utah Box Elder Thicket) holds a net every Wednesday at 8:00 PM on the 145.43, 448.300, 149.29 repeaters. This net is followed by a CW net at approx. 8:30. Net control is Phil Siofka KJ7LM, Garland UT.. They also meet the first Thursday of every month at 7:00 PM in the basement of the Zions Bank on the corner of main and first north in Brigham City. Their contact person is Stew Greenwood AB7BA at 863-2795.

THE BRIGERLAND AMATEUR RADIO CLUB meets the 2nd Thursday of the month (except June, July, and August) in the basement of the Sheriff's Office. They hold a net at 9:00 PM on the 147.20 repeater every Tuesday. Their contact person is Dean Stevens N7WYY at 753-2664.

THE UTAH TCP/IP Users Group Of UTUG is an informal group that discusses TCP/IP protocols and other packet information. They are geared to all levels of users, new and seasoned. They hold a weekly net Sundays at 8:00 PM on the 146.620 repeater. Their contact person is Matt Simmons K67MH at 965-1038

The High Valley Net from Heber meets every Monday at 9:00 PM on the 147.18 repeater. Their contact person is Doug Neilson, N7PPW at 756-5927 or Jon Chenworth, K67GY at 564-3598

The University of Utah Radio Club is open to University Staff, alumni and students. There is a fully equipped station available 24 hours a day. Their contact persons are Marvin Match KA7TPH at 581-6085 or Clint Turner KA7OEI at 972-5541

The Salt Lake Community College Amateur Radio Club is open to anyone. They would like to welcome interested parties to join them. They

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meet on the South campus in room N285 on the first Saturday of the Month at 3:00 PM. Please contact Keith K17SL at 957-3247

Rocky Mountain Radio Assn. is open to all Utah hams and they support the 447.900, 448.400, 448.700 repeaters. Their net is on 447.800 and 52.525 (six meters) every Wednesday night at 8:00. Please contact Marc Peterson (KB7YJJ) at 977-1845 for info!



IS ANYONE
OUT THERE
LISTENING?

FOR SALE
ICOM 2 METER HANDHELD
IC-P2T (LIKE NEW IN BOX)
\$175.00
801-768-3636
WALLY

NEWS RELEASE

AMATEUR RADIO: A NATIONAL RESOURCE

FOR IMMEDIATE RELEASE

SALES INFORMATION: LISA
TARDETTE 860-594-0255
OTHER INFORMATION: JAY MABEY
860-594-0241

1996-1997 ARRL REPEATER
DIRECTORY



The American Radio Relay
League is pleased to announce the
1996-1997 Repeater Directory. It's
the 25th Anniversary of the ARRL
Repeater Directory and we are

celebrating in style.

Completely updated with the latest information,
here's some of what you'll find in the pocket-sized
25th Anniversary of the ARRL REPEATER
DIRECTORY.

- expanded listings for US and foreign repeaters as well as greatly expanded propagation beacon listings.

- many handy hints on repeater operation and interference tracking. Also featured is an overview of the use of the LITZ (Long-Time Zero) system and Wilderness Protocol.
- compact and easy access to ARRL Officers (complete with email addresses), Spectrum Committee, Digital Committee and Future Systems Committee, with names and addresses.
- names and addresses for Frequency Coordinators
- ARRL Band plans for all VHF and UHF spectrum allocations.
- complete listing of ARRL Special Service Clubs, with their meeting times and locations.

SOFT COVER PUBLICATION DATE: MAY 1996 RETAIL: \$8.00

THE ARRL EXTRA CLASS LICENSE MANUAL (SIXTH EDITION)

The American Radio Relay League is pleased to announce the sixth edition of the ARRL EXTRA CLASS LICENSE MANUAL. This new License Manual has been completely revised and updated to match the newest Amateur Extra Class (Element 4B) Question Pool, released by the Volunteer-Examiner Coordinator's Question Pool Committee in December 1995. The questions in the new question pool will be used on Amateur Extra Class (element 4B) license exams starting July 1, 1996, and are expected to be used until June 30, 2000.

SOFT COVER PUBLICATION DATE: MAY 1996 RETAIL: \$12.00

**REMEMBER THAT
YOU ONLY
HAVE UNTIL 6 JULY
TO BUY YOUR
STEAK FRY TICKETS!
TALK TO GARY
OPENSHAW FOR
SPECIFICS!
(prices follow...)**

THE MICROVOLT

**We're just
So dammed busy!**



QUESTION...

First off I want to apologize for the Microvolt being late this month. The problems that I have been having with getting the roster together to insert in the Microvolt are extremely HUGE. First off, the Microvolt was 25 pages long. After a lot of editing and inserting it in the Microvolt, the Microvolt exceeded 30 pages. So I made the letters smaller. To the point that you couldn't see them almost...and I still had a problem. The Microvolt was awfully big. I took out EVERYTHING except what HAD to be in there! (Like the name) Guess what? It was still 23 pages long. And I NEED to put stuff in the Microvolt about the steak fry and Field Day and other stuff that seems extraneous, but is very important to many amateurs. so...this is the questions.

First, the roster has to be created and I believe that this is

something that needs to be approved by the board and the membership before I just go and try to get it printed. It will no way fit in this Microvolt.

*Does the membership feel that making the Roster and giving them out at the Steak Fry, maybe give them out at a few of the meetings...??? is a good idea? maybe it will give some of the members incentive to come to the meetings. What do you think? This is your club! No matter what we do at this point it is going to cost the club money to print the roster. It is sending the Roster that may be a problem. Maybe if someone can NOT no matter what make it to a meeting or a steak fry, we can send them a roster if they send us a SASE (Self Addressed Stamped Envelope) I am going to bring this up on Sunday's net, so that everyone knows what has happened to the Microvolt this month and to ask them what they feel they want to do. Bruce has even suggested maybe selling them at the Swap Meet in SEPT> Thanks,
Cokie Eddy (KC7MDV)*



This Just In

EDITORS NOTE

Dear People One and All,
Thank you very much for your patience with the Microvolt. Before, I had a job and was very busy with

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the job. Now, I haven't worked on the Microvolt everyday because I have been crying over not having a job. As a friend of mine once said, crying gets you nowhere and there is a shortage of Kleenex in some cities.

At any rate, thanks for the patience. Now for why I am writing...

Please note that the deadline for the Microvolt is usually the 10th. The Microvolt goes to the printer on the 15th, so any and all submissions need to get to me by the 10th, not the 15th. I ask for submissions and get them either on the fifteenth, or a few days after. the Microvolt, though it is for June (for example) gets pretty much put together by the night of the fourteenth of May and trucked over to the printer for Don to do his magic on it. It then is at the printer for about five days, and that's the 20th of May. It then goes to Maurcen to have the stickers put on it. Maurcen is very efficient and it usually only takes her a day or so. Then the Microvolt is sent out and it takes the post office a couple of days...

You get the Microvolt before the first of June because of that. If you are looking for your Microvolt, keep your eyes peeled around the 25th or so. That is if everything is going on schedule.

But if someone gets me a dated submission and wants it in the Microvolt for June, for example, and they give it to me on the 19th of May thinking that they have given me plenty of time for Junes Microvolt. NOT SO! I need it for the next Microvolt preferably as soon as you get the last Microvolt and until the 10th. Then it will get in the next Microvolt. That's why a lot of people that send me stuff have to wait for the following Microvolt.

I really don't mean to be a complainer because I love the submissions. But please remember that if it is dated material that it needs to get to me between the 25th of the month and no later than the tenth. And then I will for sure get it in the next Microvolt. Even if my Microvolt is made up and I get something on the eleventh, I may still stick it in! But please remember that basically the Microvolt is finished by the 14th.

Thanks,

Cokie Eddy (KC7MDV)
UARC Microvolt Editor

STEAK FRY PRICES

MEMBERS \$2.00

Children \$3.00

Guests \$9.00



YOU MAY BE A TECHNO-NERD...

Chuck Johnson

1. If you introduce your wife as "my lady@home.wife"
2. If your spouse sends you an e-mail instead of calling you to dinner.
3. If you quote scenes from ANY Monty Python movie.
4. If you want an 8X CDROM for Christmas.
5. If Dilbert is your hero.
6. If you stare at an orange juice container because it says 'concentrate'
7. If you can name 6 Star Trek episodes.
8. If the only jokes you receive are through e-mail.
9. If your wrist watch has more computing power than a 486DX-50.
10. If your idea of good interpersonal communication means getting the decimal point in the right place.
11. If you look forward to Christmas only to put together the kid's toys.
12. If you use a CAD package to design your son's Pine Wood Derby car.
13. If you have used coat hangers and duct tape for something other than hanging coats and taping ducts.
14. If, at Christmas, it goes without saying that you will be the one to find the burned out light bulb in the string.

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15. If you window-shop at Radio Shop.
16. If your ideal evening consists of fast-forwarding through the latest sci-fi movie looking for technical inaccuracies. editors note... just the other day Dave and I was watching old versions of Dark Shadows and figured out that, wow, if we get another O-SCOPE then we, too, can animate ourselves a created-human person! WOW!!!
17. If you have "Dilbert" comics displayed anywhere in your work area.
18. If you carry on a one-hour debate over the expected results of a test that takes actually five minutes to run.
19. If you are convinced that you can build a phaser out of your garage door opener and your camera's flash attachment.
20. If you don't even know where the cover to your personal computer is. (We had one?-editor)
21. If you have modified your can opener to be microprocessor driven.
22. If you know the direction the water swirls when you flush...(and the way it flushes when Dave visits Australia-editor)
23. If you own "Official Star Trek" anything.
24. If you have ever taken the back off of your TV just to see what's inside.
25. If a team of you and your co-workers have set out to modify the

antenna on the radio in your work area for better reception. (Or if you have been on Linda Reeder's roof!-editor)

26.If you ever burned down the gymnasium with your Science Fair Project....

(continued next Microvolt...)

Thanks Chuck!



JUNE 6 MEETING: FIELD DAY

The June 6 meeting of the Utah Amateur Radio club will feature Field Day.

We will have slides and videos of past Field Days, tips for operating on the upcoming Field Day, and a chance to participate in Field Day planning.

"That's all very nice," I hear you cry, "but WHAT'S FIELD DAY??"

Oh yes, there is that little detail to explain. Well, you'll get the most complete explanation by attending the meeting, but here are the basics. Field Day is a national contest, the biggest contest of all in amateur radio. The rules encourage clubs and groups to operate from portable sites, meaning away from established buildings and power lines. Field Day takes place over the weekend of June 22 and 23. Check the May issue of QST for the full contest rules

UARC plans to have a club entry. We will operate the W7SP station from a location in the mountains. It will provide a chance to combine

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amateur radio operation with a family camp out. Last month, the club voted to go to Wolf Creek Summit, on the road between Woodland and Hannah. This will be first choice if the road is open and the site is inhabitable. Check the web page and Sunday night nets for late-breaking details. The June meeting will also be the last chance to sign up in person for the July steak-fry. Bring your checkbook along and save the cost of a stamp.

The meeting will be June 6, at 7:30 p.m. There will be the usual newcomers' meeting at 7, along with books to buy and friends to greet.

UARC meetings are held in the Little Theater building in the Salt Lake County fairgrounds. (Neither the building nor the street is marked with a number, but the address is approximately 5150 South and 150 East. Follow the sign that says "Square Dancing").

See the map available from the Home Page.

FOR SALE
CUSHCRAFT R5 HF
BAND, HALF WAVE
ANTENNA. 10, 12, 15, 17
and 20 METERS.
EXCELLENT CONDITION.
\$100
TOM KJ7AV
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NEWS FLASH FOR ALL CLUB MEMBERS!

-Peter H. Grillo AH3C

You are all invited to participate in the Utah Centennial QSO Party on August 24-25. This is an opportunity for Utah radio amateurs to generate good will, get international recognition, and to have fun all at the same time.

This QSO party can only succeed if we all participate, even if only for a few hours. Single operator and group operations are all encouraged. If you have a mobile rig, or can get away for the weekend to put up an antenna with a portable set up, you are encouraged to find a rare Utah county to operate from. If you can't get away, make sure you find time to operate from home.

Announcements of this activity will be published in CQ Magazine, QST, CQ Contest, National Contest Journal, World Radio, The DX Bulletin, and a large number of world wide radio publications.

You will have an opportunity to be the station that everyone else is looking for. Plan ahead. Any station will do. Throw wires to the trees and make it happen!

For further information, contact Pete (AH3C at 277-4513 or ah3c@burgoyne.com), or Alan (K6XO at 571-7009 or alan@es.com).

UTAH CENTENNIAL QSO PARTY

OBJECT: Stations outside of Utah work as many Utah stations in as many UT counties as possible. Stations in Utah work anyone.

WHEN: August 24-25, 1998

TIME: Saturday 1500z (0900 MDT)- Sunday 2100z (1500 MDT). Maximum operation: 24 of the 30 hours. Minimum off time: 30 minutes (indicate off time in log).

CLASS: FIXED, MOBILE, PORTABLE (Single & Multi-op categories). One signal transmitted at a time. ALL CONTACTS MUST BE SIMPLEX!

EXCHANGE: Utah stations send QSO number, name and county. Stations outside Utah send QSO number, name and state/province. DX stations send only QSO number and name. There is no partial contact credit. FIXED STATION- Phone contact is worth 2 points, CW contact: 4 points. UTAH MOBILE or PORTABLE- Phone contact: 4 points, CW contact: 8 points.

MULTIPLIERS: Utah Stations- count states (48), Canadian Provinces (13), and Countries (including KH6 and KL7, excluding VE/W). Use the CQWW multiplier list of countries. Utah stations may work other Utah Stations for QSO credit, but no credit is given for different counties worked in Utah. Only the State credit can be counted. Multipliers are counted once per band. The same station can be worked on each different band and mode for QSO points.

COUNTY LISTS:

BEV, BV-Beaver	Box, Bo-Box Elder
CAC, CA-Cache	CAR, CR-Carbon
DAG, DG- Daggett	DAV, DV-Davis
DUC, DU- Duchesne	EME, EM- Emery
GAR, GA- Garfield	GRA, GR- Grand
IRO, IR- Iron	JUA, JU- Juab
KAN, KA- Kanab	MIL, MI- Millard
MOR, MO- Morgan	PIU, PI- Piute
RIC, RI- Rich	SJU, SJ- San Juan
SAL, SL- Salt Lake	SPE, SP- San Pete

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SUM, SU- Summit	SEV, SV- Sevier
TOL, TO- Tooele	UIN, UI- Uintah
UTA, UT- Utah	WCH, WC- Wasatch
WEB, WE- Weber	WAY, WN- Wayne
WSH, WG- Washington	

SCORE:

Total score is the total number of QSO points multiplied by the total number of multipliers.

FREQUENCIES: 160, 80, 40, 20, 15, 10, 6 and 2 meters. WARC band contacts do not count. Suggested phone frequencies: 1850, 3850, 7230, 14,250, 21,300, 28,450. Try 147.54 MHz at 2000, 0000, and 0400z. Suggested CW frequencies: 1810, 3550, 7050, 14,050, 28,050. Try CW on the half-hour, ten meters at 1900z and 160 at 0500z.

ENTRIES: Entries must be post marked no later than October 15, 1998. Logs may be submitted by postal mail to: UCQP, c/o AH3C, 2150 East 6200 South, Salt Lake City, UT 84121. Entries may be submitted by e-mail in ASCII format to alan@es.com. Label diskettes with call and county/state/province/country. Include a hard copy of the summary sheet. A one dollar donation to help defray the cost of printing and postage is encouraged, but required. To obtain a package containing log and summary sheets send a business size SASE to the above address.

AWARDS: A minimum of 50 QSO's is required to qualify for an award. The high scoring entry from within Utah and from outside UTAH will receive the UTAH CENTENNIAL QSO CHAMPION TROPHY. Top 5 stations in Utah and top 5 stations outside Utah will receive a BEEHIVE STATE HONEY JAR! Top scoring entries from each Utah County, State province, and country will receive a UTAH CENTENNIAL QSO PARTY certificate. Special awards will be made to selected entries as determined by the awards committee.

OPERATING HINT: The last 6 hours of operating are a must. Roving mobile stations will assure that the rarest counties will be on the air. DX stations, try 20 meters!!

**THE MICROVOLT STAFF
WOULD LIKE TO WISH
ALL THOSE FATHERS OUT
THERE A VERY HAPPY
FATHERS DAY! MAYBE
YOU WILL GET A NEW
RADIO FOR THAT
SPECIAL DAY!**

ON BEARDS:
I'VE BEEN TRAVELING SO
MUCH, I HAVEN'T HAD TIME
TO GROW IT.

--BOB HORNER, ATLANTA
BRAVES THIRD BASEMAN,
ON WHY HE HADN'T GROWN
A BEARD.



EXAM- LOGAN JUNE 15th PAUL HANSON
Work- 753-4843 4th Floor Of the old main building
Utah State University
Everything, Tech, Tech Plus Code, Novice

WOW! YOU'RE FULL-SCALE THROUGH THE REPEATER

--Clint Turner (K17OM)

So, you just got your ticket. You have a **HT** and you have a freshly-charged battery. You listen, hoping to learn more about this new hobby, ham radio. Among other things, you hear:

"You sound quiet. You might want to go to high power..."

"Sorry **OM**, you're distorted. You must be 500 Hz off frequency..."

"This antenna has better audio than the other one..."

"WOW! You're full-scale through the repeater!"

You are puzzled. You dig up your study guide and thumb through the relevant portions. Hmm... They didn't seem to cover this...

Well, learning by example is one of the best ways to gain knowledge, second to actually doing something, but these "examples" seem a bit odd. The experience you already have doesn't seem to correlate with what you just

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heard, but these people have been around for a while, right? Right!???

While there are many such "myths" (after all, lift is "hit and myth" isn't it?) we'll take these on.

It might be fair to say that many new amateurs have had experience with AM more than FM and may not be aware of some fundamental differences.

The first three examples are actually related and are telling of the way FM actually operates. On AM, you impose the information (modulated speech) on the carrier by varying its signal strength. If you think about it, then it would make sense that a weaker signal could actually sound quieter and conversely, a stronger signal could sound louder. In that sense, it, going to higher power, or switching to a better antenna could make a weaker signal sound louder.

FM, on the other hand, conveys its information solely by "wobbling" (or "deviating") the frequency. The radio receives the signal, "locks" onto the received carrier (by using something called a "limiter") and "tracks" its frequency. As long as the receiver can track the frequency (that is, as long as the limiter has enough signal to do its job) it will faithfully reproduce the transmitted signal. If you think about it, you can see that whether the signal is weak or strong, as long as the receiver can track the signal, it will "demodulate" it without any change in loudness (after all, it is tracking the "wobble" and **NOT** strength!) If the signal is so weak that it can't track it properly, then it becomes noisy (the audio stays the same, though, but the noise can come up and make it *seem* quieter - and that's what we call **QUIETING**.)

So, whether you are on high power or low power, you won't sound any louder or quieter on FM. At best, you'll sound less noisy on high power than on low power.

Since the receiver tracks the wobble (the typical 2 meter transmitter deviates as much as 5000Hz [5KHz]) on either side of the center frequency it would make sense that if the receiver's center frequency isn't the same as the transmitter's, some of the deviation will be "chopped off" by the radio's filters and the receiver will not be able to track the received signal properly. FM can tolerate *some* misalignment; in general, anything less than 1500Hz (1.5KHz) or so won't be heard on most radios.

An oft-misunderstood phenomenon is multipath. For AM, this effect isn't usually noticed, as it shows up as a variation in frequency response - something to which the human ear isn't very sensitive. For FM, multipath can be disastrous since it distorts the signal to the point where instead of just one carrier, there are sometimes multiple carriers (bounced from different directions...) and the audio becomes badly distorted.

With this in mind, the antenna isn't going to affect your audio at all, unless it aids in increasing or decreasing multipath, or makes the signal stronger or weaker, affecting the amount of *quieting*..

"WOW! You're full scale through the repeater!"

I have to laugh when I hear this one. It seems to defy its own logic since it both acknowledges the

existence of the repeater itself, but seems to ignore what the repeater actually does.

Suffice it to say that a repeater is essentially a receiver connected to an automatically-keyed transmitter. Whether the received signal is strong or not, the transmitter doesn't know (or care!) but it outputs the same amount of power whenever it is keyed up. Since the transmitter is of fixed power (and its antenna are likely in a good location) you will likely ways get a good, strong signal. How does one tell how well someone is getting into a repeater? Well, you really can't. All you can tell is when the signal is too weak (i.e. not full quieting) such that the receiver can't track it properly. In short, the signal input can vary over a million fold and you'll never be able to tell any difference.

There are more myths than this, and I'll be listening...

=====

Please send the editor of this newspaper your name if you do not want your name published in the Roster on the Club Web page via the internet.

My address is 8719 Newell Drive,

West Jordan, UT 84088

I will see to it that John Buttles gets this information.

Thanks-

Cokie Eddy (KC7MDV)

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(this spot was empty for a few days and I didn't know what I was going to put in it. I thought it was strange for me to not come up with something...and then Linda told me about Ace. There is a reason for everything, I suppose.)

SILENT KEY

Jerome E. Martin

"ACE"

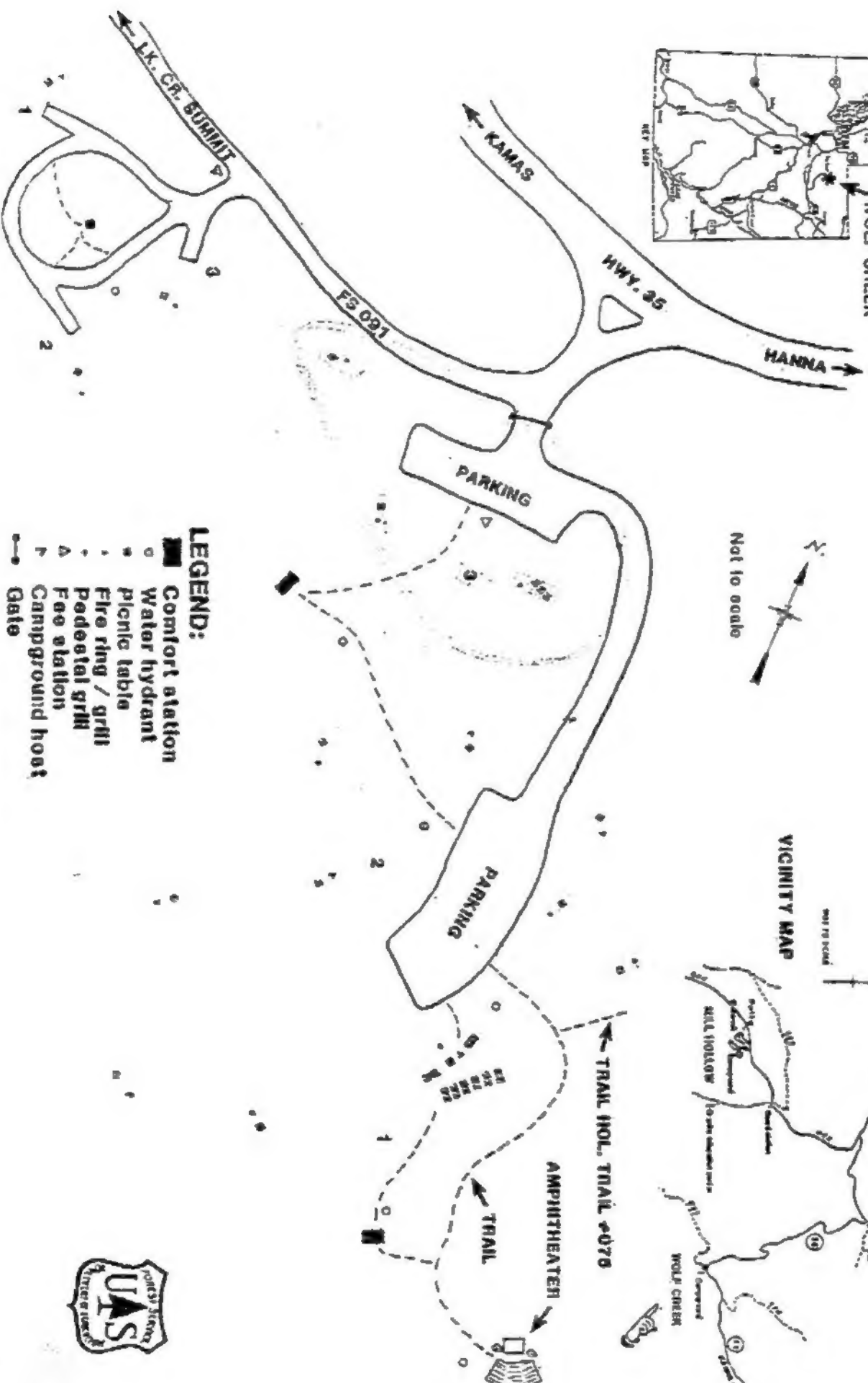
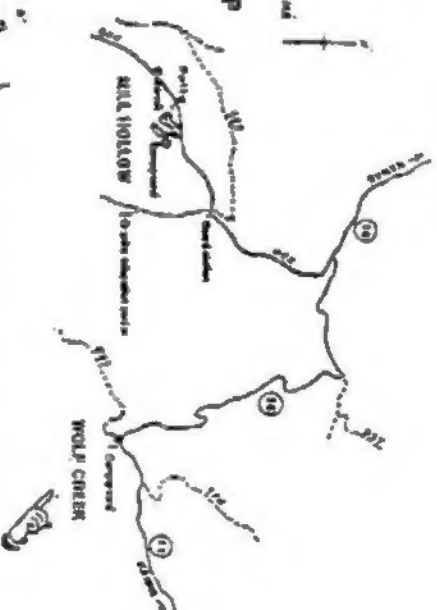
On Saturday, May 18th, many of us lost a very good friend. N7CAW, Ace, passed away in his home in Riverton to natural causes. He was 52 years young.

You may not have known Ace long, but his voice on the radio was undeniably Country and Western, as he would call it. He was a charmer to the women. He called them "Darlin'" and made them feel very special. He also had many gentlemen friends, as Ace was the kinda guy that liked to talk to everyone. He had that Texan charm that some of us only got to read about. He claimed to make some outrageous chili.

If you couldn't sleep at night, you could turn on the radio (if you have to, mine is always on) and find Ace and his cohorts, Gary, (KB7NGJ) Herb (KC7KRE) and sometimes Mark (AB7GJ) in there on their fun little "Ding-a-Ling Net". Sometimes the jokes would be hilarious. He liked to get the last word.

People say to me; 'You only knew 'him' on the radio, how could you be close?' I feel that when you meet someone on the radio, you fall in love with their heart.

We will miss you ACE., eternal 73's.



All roads are improved dirt

12-4-02 CNY

UNITA NATIONAL FOREST